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# STATE OF COLORADO



## 1957



# ANNUAL REPORT

COAL MINE INSPECTION DEPARTMENT



STATE OF COLORADO



1957

ANNUAL REPORT

COAL MINE INSPECTION DEPARTMENT

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LETTER OF TRANSMITTAL

April 1, 1958

To His Excellency  
Steve McNichols  
Governor of Colorado

Sir:

It is an honor to submit to you the Annual Report of the State Coal Mine Inspection Department of Colorado, for the year ending December 31, 1957.

Respectfully,

THOMAS ALLEN,  
Chief Inspector of Coal Mines

## PERSONNEL OF DEPARTMENT

CHIEF COAL MINE INSPECTOR - THOMAS ALLEN

Office - Argonaut Hotel, Denver 2

Telephone - KEystone 4-6485

Home - 1285 Albion St., Denver 20

Telephone - FRemont 7-5572

### DEPUTY INSPECTORS - Counties within each district

Dist. #1 - FINLAY McCALLUM, 4635 Eliot Street, Denver 21

Telephone - GLendale 5-0696

Boulder, El Paso, Jackson, Jefferson, Moffat,  
Rio Blanco, Routt and Weld.

Dist. #2 - GEORGE H. SMITH, 1110 Macon Avenue, Canon City

Telephone - 891

Fremont, Gunnison (Crested Butte area),  
Huerfano and Las Animas.

Dist. #3 - JOHN J. RODDY, 1404 White Avenue, Grand Junction

Telephone - CHapel 2-5912

Archuleta, Delta, Garfield, Gunnison (Somerset  
area), La Plata, Mesa, Montezuma, Montrose,  
Pitkin and San Miguel.

### GENERAL OFFICE

Administrative Assistant ..... Veda Burford

1610 Magnolia St., Denver 20

FRemont 7-4317

Account Clerk ..... Evelyn Miller

3915 Xavier St., Denver 12

Clerk-Stenographer ..... Rose Maxine Canaday

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## INTRODUCTORY COMMENTS

The 1957 Annual Report of the State Coal Mine Inspection Department is dedicated to the 2,499 men who worked a total of 22,019 days in and around the coal mines in Colorado during 1957 without one fatality, and a minimum of 76 compensable injuries for the same period.

Due credit is given to the operators, management, Federal and State Inspectors and the U.M.W. of A., for their united effort in safety toward the achievement of this remarkable record for the first time in 74 years.

Your attention is called to statistics that are printed for the first time as a result of several years of research, which may be found within this report. A statistical chart containing the most pertinent data of the coal mining industry from 1883 through 1957, is on pages 26 through 31; and a condensed report of disasters for the same period, showing the number of persons killed by explosions, mine fires, from gas in old or abandoned workings, and inundation, listed on pages 32 through 39. It is hoped that you will preserve this publication in your permanent files.

The first power plant in Colorado to be erected at the portal of a coal mine was built by the Public Service Company of Colorado at the Cameo Mine in Mesa County. This 22000KW steam electric generating station was completed and in operation in 1957, and 20,214 tons of coal moved by belt conveyors from the tippie directly to the plant. Plans are made for a 44000 KW unit to be added and ready for use in the early part of 1960.

Among the improvements during the year, a new coal washing plant was installed at the Thompson Creek Mines in Pitkin County, an Air-dox plant at the Pioneer Canon Mine in Fremont County; new continuous mining machines were installed during the year at the Boulder Valley #3, the Eagle and the Imperial mines in Weld County, and at the Dutch Creek Mine in Pitkin County.

After personal examination by Chief Inspector Thomas Allen and Board Member John Sebben, 49 additional ratings were granted the latter part of 1957 to men who had gained the required experience.

A fire at the Hawk's Net Mine in Gunnison County on February 7, caused by the ignition of the rubber belt conveyor used for transportation of coal, was under control and opened for production by March 8, with a minimum loss of time and property, and no resulting injuries.

The Cameo tippie burned to the ground on September 29, with an estimated loss of \$50,000 in addition to the loss of conveyors, coal crushers and scales.

Opinions rendered by Attorney General Duke W. Dunbar concerning coal mining maps:

1. Maps made by land surveyors to be accepted if surveyor is licensed in Colorado.
2. Maps accepted in Colorado to be made only by engineers licensed in this state.

### HONOR ROLL FOR 1957 - NO FATALITIES DURING YEAR

50,000 or more man-hours per injury

Mine	Company	County	Non-Fatals	Man-Hours Per Injury	Tonnage Per Injury
Frederick	C. F. & I. Corp.	Las A.	3	333,435	115,616
Allen	C. F. & I. Corp.	Las A.	8	112,893	83,597
Sterling	McNeil Coal Corp.	Weld	1	61,469	62,969
Bear	Bear Coal	Gunn.	1	59,292	53,003
Edna Strip	Edna Coal	Routt	1	55,746	159,896
Osage Strip	Osage Coal	Routt	1	53,422	156,049

### HONORABLE MENTION

20,000 to 50,000 man-hours per injury

Cameo	Kerr Coal	Mesa	0	* 49,734	* 58,010
Eagle	Imperial Coal	Weld	3	42,000	76,171
Lincoln	Clayton Coal	Weld	1	39,214	70,275
King	Juanita C & C	Delta	0	* 38,593	* 37,893
Bo. Valley #3	Boulder Valley	Weld	2	36,746	45,049
Oliver	Minerals Dev. Corp.	Gunn.	0	* 34,289	* 32,671
Thomp. Crk. #3	Thomp. Crk. C&C	Pitkin	3	33,169	28,176
Somerset	Minerals Dev. Corp.	Gunn.	4	32,325	30,297
Red Wing	Colowyo Coal	Moffat	2	29,940	54,012
Pikeview	Pikes Peak Fuel	El Paso	0	* 29,016	* 36,534
Thomp. Crk. #1	Thomp. Crk. C&C	Pitkin	5	27,730	17,633
Hawk's Net	Champion Coal Mng.	Gunn.	0	* 27,208	* 32,023
Calumet #2	Delcarbon Coal	Huerfano	1	26,166	20,566
Imperial	Imperial Coal	Weld	1	24,697	34,888
Keystone	Keystone Mng. Corp.	Routt	2	23,425	16,032
Washington	Clayton Coal	Weld	5	20,914	26,872
Harris	Colo. & Utah Coal	Routt	4	20,556	20,370

\* - Total man-hours and tonnage without injury.

## SUMMARY OF FIELD WORK

Number of inspections .....	589
Complaints investigated .....	31
Mines closed for violations .....	9
Examinations for Shot Firers .....	33
Additional ratings granted to officials .....	49
Mine fires investigated .....	4
Suspension of certificates .....	4

## FINANCIAL STATEMENT FOR THE CALENDAR YEAR

### RECEIPTS

Cash Balance January 1, 1957		\$ 3,281.12
Coal Tax	\$24,447.48	
License Fees	5,165.00	
Sale of Law Books	95.00	
Miscellaneous - Vault Rental - shared	159.50	
Miscellaneous - Sale of cars, Ins. refund	1,995.71	
Appropriation from General Fund	26,505.81	
Total		<u>58,368.50</u>
		\$61,649.62

### EXPENDITURES

Salaries - Field and Office	40,539.83	
Travel - Hotels, Meals, Gas, etc.	5,701.23	
Capital Outlay - Cars, Office Equipment	5,356.09	
Rent - Field and Office	2,899.80	
Workmen's Compensation	1,129.00	
Telephone & Telegraph	1,378.38	
Office Supplies, Repairs & Maintenance	464.70	
Postage and Express	265.10	
Printing	252.46	
Surety Bonds, Car Titles & Insurance	205.82	
Safety Supplies	100.31	
Multigraph Services, Blue Prints	99.86	
Total		<u>58,392.58</u>

Cash Balance January 1, 1958	\$ 3,257.04
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THOMAS ALLEN  
Chief Coal Mine Inspector



# GENERAL SUMMARY OF THE COLORADO COAL STATISTICS FOR 1957

## MINES REPORTING PRODUCTION - Mechanized 93, Pick 30, Strip 5 PRODUCTION IN SHORT TONS

### GRADES

	SIZES		
Bituminous	2, 650, 801	Mine Run	578, 820
Sub-Bituminous	673, 986	Lump	224, 367
		Nut	74, 938
		Egg	163, 902
		Pea	1, 091, 231
		Slack	1, 137, 067
		Miscellaneous	54, 462

128  
3, 324, 787

## TONNAGE BY MINING METHODS

### MINED - Electric undercutting machines

Solid pick

2, 136, 578  
607, 801

### LOADED - Mechanically, using no or very little hand labor

Hand-loaded onto mechanical loaders

1, 881, 413

Hand-loaded into pit cars

340, 365

## CUT AND LOADED BY CONTINUOUS MINING MACHINES

### STRIPPED - OPEN PITS (5)

## SHIPMENT AND DISPOSAL

Shipped by rail	2, 451, 007	Public Service Power Plant at Cameo Mine	20, 214
Shipped by truck	824, 823	Shipped out of the state	563, 443
		Used for power and heat at the mines	28, 743

## MEN EMPLOYED (Average number) Underground 1, 955, Surface 460, Strips 84

## DAILY PRODUCTION PER MINER

### DAYS WORKED (Average number per mine)

### DAILY CAPACITY OF ALL MINES (as reported)

## UNDERGROUND MECHANICAL & ELECTRIC EQUIPMENT - See Pages 24 & 25

### MINING MACHINERY - Electric Undercutting - 279 Drills - 303

Combination - 8

### Compressed air: Cutting Machines - 10 Drills - 24

### MECHANICAL LOADERS - Shakers - 179 Mainline conveyors - 23

Mobile

- 60 Chain conveyors - 26

Power shovel - 1 Portable conveyor - 2

### CONTINUOUS MINING MACHINES - Undercutting & loading

- 9

288

2, 499  
7.7  
172  
27, 097

HAULAGE MACHINERY - Locomotives: Electric trolley - 93 Electric battery - 49  
Hoists: Electric -121  
Shuttle cars - 77

LAMPS: Flame safety - 494 Electric cap - 3,880

### STRIP MACHINERY & EQUIPMENT

Bulldozers	- 11	Drag lines	- 4	Power shovels	- 3
Caterpillars	- 5	Drills	- 6	Scarifiers	- 2
Compressors	- 4	Jackhammers	- 9	Tractors	- 7
Carryalls	- 1	Loaders	- 3	Trucks	- 17
Motor graders	- 6				

### EXPLOSIVES (Pounds)

Underground Mines	Permissible	Black Powder	Dynamite	Cardox	Airdox
Strip Mines	814,138		6,125	18 Mines	5 Mines
	11,650	2,000	94,000	Special-233,200	820,263
	825,788	2,000	100,125		340,850
				233,200	1,161,113

### SURFACE & MISCELLANEOUS

Hoists: Gas	- 20	Steam	- 2	Electric	- 58	80
Tipples: Gravity	- 59	Mechanical	- 60			119
Ventilation fans: Exhaust	- 75	Force	- 31			106
Coal washing plants	- 4	Steam plants	- 15	Box car loaders		- 42
Pumps: Electric	- 214	Compressed air	- 8	Bath houses - 43	Showers - 399	
Air compressors: Underground - 301		Surface	- 24	Rock dusting machines	- 47	
Telephones	- 199			Battery charging stations	- 51	
Gravity Plane	- 1			Aerial tram	- 1	
SAFETY EQUIPMENT: Self-rescuers - 340				Oxygen breathing apparatus(McCaa&Chemox)	- 50	

### GENERAL INFORMATION

Shaft mines - 6	Rock slopes	- 17	Rock tunnels - 6	Drifts - 56	Coal Slopes - 44
Number of mines: On railroads		- 26	Roof-bolted		- 15
Tons of coal chemically treated		- 276,195	Tons of washed coal	- 21,831	

### ACCIDENTS - See Page 40

Total number:	Fatalities	- 0
	Non-Fatals	- 76

# D I R E C T O R Y

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Aguilar Imperial C.	Trinidad	Aguilar Imperial	Same	Las A.
Alvidrez, Casimiro	Florence	Black Knight #2	"	Fremont
Annex Coal	"	Annex	"	"
Aztec Fuel	Walsenburg	Caddell #2	"	Huerfano
Babson Coal	Hayden	Babson	"	Routt
Baldy Coal	Trinidad	Baldy #2	Same	Las A.
Barnell, Mary	Walden	Marr	"	Jackson
Barstow, Aul & Peterson	Palisade	Blue Flame	"	Mesa
Bear Coal	Somerset	Bear	"	Gunnison
Beer Coal & Const.	Florence	Beer Strip	"	Fremont
Bendetti, Henry	Glenwood Spgs.	Atlas #3	Same	Garfield
Berwind Canyon Coal	Trinidad	Berwind Canyon	"	Las A.
Bisulco, Alex	Aguilar	Bisulco	"	" "
Black Beauty Coal	Walsenburg	Black Beauty	"	Huerfano
Blue Blaze Coal	"	Blue Blaze	"	"
Blue Ribbon Coal	Paonia	Blue Ribbon	Same	Delta
Boscia Coal	Oak Creek	Apex	"	Routt
Boulder Valley Coal	Denver	Boulder Valley #3	Dacono	Weld
Brodhead Coal	Trinidad	Brodhead #2	Aguilar	Las A.
Brooks, Ira T.	Cedaredge	Green Valley #2	Same	Delta
C & C Coal	La Veta	Klikus (Taylor)	Same	Huerfano
C. F. & I. Corp.	Pueblo	Allen-E & W Portals	Weston	Las A.
C. F. & I. Corp.	"	Frederick	Valdez	" "
Caldirola Fuel	Florence	Caldirola #2	Same	Fremont
Can. Blk. Diam. Coal	"	Can. Blk. Diam.	"	"
Can. National Coal	Florence	Canon National	Same	Fremont
Cason, Vernon	Durango	Blue Flame	"	La Plata
Castles Coal	Crested Butte	Hinkle	"	Gunnison
Champion Coal Mining	Somerset	Hawk's Nest	"	"
Clark Coal	"	Edwards (2 Seams)	"	"

## RAILROADS - OPENINGS - SEAMS

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch % - °
			Depth	Slope	Tunnel Length				
Robert Fabec		25					5	7	6%
C. Alvidrez		5					1	4	3°
Nickie Rocchio		23					5	6	4°
Ignacio Ruiz		5		200			4	4	4°
Shirl Prewitt		2					10		12%
E. W. Meggison		45				Yes	5	6	
Earl Caldwell		15					50		48°
W. S. Barstow		25				Yes	5	6	3%
Tony Bear	D&RG	475			300		7	6	3-4%
Lloyd J. Beer		150	S T R I P				4		6%
H. Bendetti		10					4	10	48°
E. Simola		12				Yes	6		8°
Alex Bisulco		6					4		6%
Mariano Pesina		15					4		2%
A. Amiday		18				Yes	3	6	6%
John Spock		30					6		7%
Angelo Boscia		10					4	6	6%
Thomas Harris		1,000	245				7		
Sam Vasques		20					3	6	3%
Ira T. Brooks		50		150			6		3%
Thomas A. Clair		10					4	6	37°
L. W. Ingles	C&W	3,500		1,578(E)	(W)	Yes	5		2-30%
F. C. Bennett	C&W	2,200				Yes	3-4		
Jesus Jimenez		50		480			4	6	3%
Frank Yellico		75				Yes	6	7	6%
Raymond Jermance		100					5	10	7°
Vernon Cason		15				Yes	6	6	5%
Victor Merle Drake		10					9		8%
Ralph Audin		300		300			8		
McLain O'Connor	D&RG	135				Yes	6&8		4%



COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Clarke Coal	Palisade	Winger	Same	Mesa
Clayton Coal	Denver	Lincoln	Erie	Weld
Clayton Coal	"	Washington	"	"
Coal Crk. Can. Mng.	Florence	Coal Creek Canon	Same	Fremont
Coles, W. E.	New Castle	NewCastle-Vulcan	"	Garfield
Colo. & Utah Coal	Denver	Harris	Mt. Harris	Routt
Colowyo Coal	"	Red Wing	Axial	Moffat
Corley Co., The	Colo. Springs	Pioneer Canon	Florence	Fremont
Delcarbon Coal	Walsenburg	Calumet #2	Same	Huerfano
Double Dick Coal	Florence	Double Dick	"	Fremont
Dry Creek Coal	Hayden	Crow Bar	Same	Routt
Dry Creek Coal	"	Old Quaker Strip	"	"
Eagle Head Coal	Grand Junction	McGinley	"	Mesa
Edna Coal	Denver	Edna Strip	Oak Creek	Routt
Ellis Coal	Somerset	Black Beauty	Same	Gunnison
Fogg, Lyndon H.	Cedaredge	Red Canon #1	Same	Delta
Four Mile Coal	Glenwood Springs	Sunlight	"	Garfield
Franceville Coal	Colo. Springs	Franceville Strip	"	El Paso
Franklin, Leo	Trinidad	Burro Canyon #3	"	Las A.
Garcia, Joe M. & Della	"	Anchor #2	"	" "
Giuliano & Sons Coal	Florence	Cedar Canon	Same	Fremont
Golden Quality Coal	Canon City	Golden Quality #4	"	"
Guadagnoli Bros.	Trinidad	Engleville	"	Las A.
Haas Coal	Rifle	I. H. I. #3	"	Garfield
Hay Gulch Coal	Hesperus	Hay Gulch #2	"	La Plata
Hicks, Ernest	Grand Junction	Hidden Treasure	Same	Mesa
Hunt, Wm. M.	Hesperus	Burnwell #2	"	La Plata
Imperial Coal	Denver	Eagle	Erie	Weld
Imperial Coal	"	Imperial	"	"
Iuppa, Albert Coal	Trinidad	Starkville #4	Same	Las A.



Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		
			Shaft Depth	Rock Slope	Rock Tunnel Length	Drift	Ft.	In.	Pitch % - 0
R. M. Clarke		8				Yes	4	6	5%
W. B. Ferguson	UP	2,000		1,800			9		
R. T. Wilson	UP	1,500	430				9		
Steve Kopic		50				Yes	4	6	5%
W. E. Coles		50			1,500		7		48%
Louis La Salle	D&RG	900		200	300		9	3	18%
Ernest Todd		800		125			23		2%
T. E. Shelnutt	AT&SF	500		200			5		8%
George Sudar	D&RG	100		700			4	2	4%
Joe Rohar		100					5	10	
John MacPherson		200		300			8		12%
Edward Lasnik		125		S T R I P			12		8%
C. O. Halcumb		15				Yes	6		24%
A. R. Ross	D&RG	1,500		S T R I P			4		6%
Ellis Axelson		90				Yes	10	6	
L. H. Fogg		30		350			4	6	5%
C. A. Betz		15				Yes	8		40%
L. F. Gordley		100		S T R I P			8	6	
Leo Franklin		3				Yes	5	6	
Joe M. Garcia		5				Yes	5	6	
Mike Giuliano	AT&SF	100				Yes	6		2%
D. Carestia		50				Yes	6	6	2%
C. Guadagnoli		12				Yes	9		
Wm. Haas, Jr.		60					10		57%
W. C. Hunt		7				Yes	5	10	3%
Ernest Hicks		25				Yes	3		
Wm. M. Hunt		25				Yes	5	8	
Frank Kolar	UP	1,500	370				9		1½%
" "	UP	900	300				10	6	
Albert Iuppa	UP	5					3	8	

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Jenkins & Mathis Coal	Meeker	Rienau	Same	Rio B.
Juanita Coal & Coke	Bowie	King	"	Delta
Keck, Wm. R.	Norwood	Keck-Reliance	"	San M.
Kerr Coal	Cameo	Cameo	"	Mesa
Keystone Mining Corp.	Oak Creek	Keystone	"	Routt
King Coal	Hesperus	King	Same	La Plata
Leader Coal	Sopris	Leader #3	"	Huerfano
Liberty Mining	Canon City	Canon Liberty	"	Fremont
Lichtenhahn, Ralph D.	Meeker	Blue Streak	"	Rio B.
Lovisone & Colarelli	Canon City	L & C #2	"	Fremont
Major Coal	Walsenburg	Major #2 (2 Seams)	Same	Huerfano
Martinez, Albert	Cokedale	Martinez	"	Las A.
Mathews, John	Oak Creek	Johnnie's	"	Routt
McNeil Coal Corp.	Denver	Sterling	Dacono	Weld
Mid-Continent C. & C.	Carbondale	Dutch Creek	Same	Pitkin
Minerals Dev. Corp. Colo.	Salt Lake City, U.	Oliver #3	Somerset	Gunnison
" " " " " " " "		Somerset	"	"
Montez, Manuel H.	Trinidad	Delagua #3½	Same	Las A.
Morasky Coal & Blocks	"	Grey Creek #4	"	" "
Morning Glory Coal	Walsenburg	Morning Glory	"	Huerfano
Moschetti, N. J.	Canon City	Canon Zenith #2	Same	Fremont
Nichols, Bryan A.	Fruita	Hunter	"	Mesa
Nix, Ammon E.	Nucla	Independence	"	Montrose
Osage Coal	Steamboat Spgs.	Osage Strip	"	Routt
Pantazes, Pete	Aguilar	Prosperity #2	"	Las A.
Paonia Farmers Coal	Paonia	Paonia Farmers	Same	Delta
Partch Brothers	Gunnison	Nu-Mine #2	"	Gunnison
Paterson, Mack R.	Fruita	Hy-Grade	"	Mesa
Peacock Coal	Durango	Peacock	"	La Plata
Peacock Coal	Trinidad	Peacock	"	Las A.

Superintendent	R. R.	Daily Cap.	O P E N I N G S				S E A M		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch % - °
			Depth	Slope	Tunnel Length				
Wm. Jenkins, Jr.		30				Yes	20		18%
Robert F. Bowie	D&RG	250					14		7%
W. R. Keck		2				Yes	2	6	
Harold Kissell	D&RG	350			1,000	Yes	6		5%
Charles Reese	D&RG	400					5	9	8°
I. A. Smith		18				Yes	6		2°
C. E. Langowski		8				Yes	4		8%
Tony J. Smith		35					3	4	6%
R. Lichtenhahn		30					20-30		10°
T. Colarelli		18					4	8	12°
Louis Bellotti	D&RG	75		75			3&5	5	6&15%
A. Martinez		1				Yes	2	2	
John Mathews		5					4	9	4½°
A. E. Newcomb	UP	550	358				7	11	
J. A. Reeves	D&RG	450				Yes	7		14°
Fritz Nyman	D&RG	250					7		6%
Wm. Luoma	D&RG	1,000					8-9		6%
M. H. Montez		4			50		4		6%
J. F. Morasky		24				Yes	3	6	
G. M. Turner	D&RG	175					4	6	
N. J. Moschetti		13					3	6	5%
Bryan A. Nichols		10				Yes	6	6	7%
A. E. Nix		9				Yes	4	6	6%
T. C. Dewey	D&RG	1,500		S T R I P			8		10%
P. Pantazes		3					2	6	7°
Fisk & Anglin		10					8	6	7°
Jos. E. Partch		150					6		3%
M. R. Paterson		30				Yes	3	6	14%
G. M. Gale		15				Yes	6		2%
Eugene L. Lopez		8				Yes	6		

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Peerless Coal	Durango	Peerless	Same	La Plata
Phillips, H. B.	Palisade	Gearhart	"	Mesa
Pikes Peak Fuel	Colo. Springs	Pikeview	Pikeview	El Paso
Pilcher, Oren A.	Mancos	Coal King #2	Same	La Plata
Prendergast, F. L.	New Castle	Rex	"	Garfield
Rainbow Coal	Trinidad	Rainbow	Same	Las A.
Rapson Coal	Walsenburg	Rapson #2	"	" "
Rasmussen, Wm.	Durango	Minoletti	"	La Plata
Red Ash Coal	Walsenburg	Maitland #1	"	Huerfano
Red Ash Coal	"	Maitland #2	"	"
Red Glow Coal	Aguilar	Red Glow	Same	Las A.
Rex Carbon Fuel	Florence	Rex Carbon	"	Fremont
Rice-Pinnacle Coal Corp.	Denver	Rice-Pinnacle	Hayden	Routt
Rifle Coal	Rifle	North Canyon	Same	Garfield
Rugby Coal	Trinidad	Rugby #6	"	Huerfano
Sarmiento Coal	Florence	Pine Gulch #2	Same	Fremont
Sarmiento Coal	"	Pine Gulch #3	"	"
Skinner Coal	Walsenburg	Gordon	"	Huerfano
Smith, A. G.	Gunnison	Baldwin	"	Gunnison
Staples, S. L., Jr.	"	Ohio Creek #2	"	"
States, Welland W.	Cedaredge	Top	Same	Delta
Strainer Coal	Canon City	Canon Wolf Creek #2	"	Fremont
Sun Coal	Hayden	Sun	"	Routt
Supancic, Louis	Cameo	River View	"	Mesa
Thompson Crk. C & C Corp.	Denver	Thompson Creek #1	Carbondale	Pitkin
Thompson Crk. C & C Corp.	Denver	Thompson Creek #3	Carbondale	Pitkin
Tolley, C. A. & Eileen	New Castle	Harvey Gap #3	Same	Garfield
Tomahawk Coal	Delta	Tomahawk	"	Delta
Twin Pines Coal	Canon City	Twin Pines	"	Fremont
Vento Coal	Florence	Vento	"	"

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		
			Shaft Depth	Rock Slope	Rock Tunnel Length	Drift	Ft.	In.	Pitch % - °
Everett Bixler		15				Yes	4	6	6%
H. B. Phillips		35					5		6%
Robert Welch	D&RG	500	178				8		6½%
Oren A. Pilcher		10				Yes	6	6	3%
F. L. Prendergast		25				Yes	7	4	52°
A. Ruscetti		2				Yes	3	6	
Adam Galli	C&S	50		2,200			5		12%
Wm. Rasmussen		12				Yes	6		5°
Clarence Clair		30					4	6	5%
" "		75					4	6	5%
Harry Smith		6					4		6%
J. M. Williams		70		450			3	10	12%
Louie Ciani		20				Yes	11		17%
Ernest A. Haas		30			130		8	6	80°
Clyde S. Dawn		10		150			4		13°
R. E. Sarmiento		12					3		4°
" " "		16					5		4°
Tony Just	D&RG	150					4		5°
A. G. Smith		12				Yes	6		5%
S. L. Staples, Jr.		10					5	6	5%
W. W. States		60		180			7		7%
A. Strainer, Jr.		30					6		4%
Thos. E. Barton		6				Yes	5-9		15°
L. Supancic		25				Yes	6		5%
Andrew Allan, Jr.		400				Yes	7		30°
Andrew Allan, Jr.		400				Yes	9		30°
C. A. Tolley		15				Yes	7	4	50°
Gene Yellico		75					11	6	4%
B. C. Fazzino		24				Yes	6		3%
Dom Vento		100					5	10	3°



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COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Victory Coal	Durango	Victory #1	Same	La Plata
Victory Coal	"	Victory #2	"	" "
Victory Coal	"	Victory #3	"	" "
Walck, Clay	Glenwood Spgs.	Marion #2	"	Garfield
White River Fuel	Vernal, Utah	White River	Rangely	Rio B.
Wilson, Glen E.	Cortez	Montezuma #2	Same	Montez.
Wright Fuel	Hesperus	Wright #1	"	La Plata
Zellitti, F., Jr., N. & C.	Durango	Morning Star	"	" "

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Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch % - °
			Depth	Slope	Tunnel				
			Length						
Wm. Gerard		125				Yes	6		5%
" "		15				Yes	3-6		5%
" "		70				Yes	6		5%
Clay Walck		3				Yes	5		40%
Robert Staley		40				Yes	10	8	8%
G. E. Wilson		10				Yes	5	8	1°
Glen Wright		50				Yes	5	8	3%
F. Zellitti, Jr.		25				Yes	5	10	7%

# REPORT OF PRODUCTION

## MEN, DAYS, ACCIDENTS - BY COUNTY - BY MINE

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
<b>DELTA</b>						
Blue Ribbon	Blue Ribbon Coal	2	117	3, 539		
Green Valley #2	Ira T. Brooks	4	193	7, 227		
King	Juanita Coal & Coke	28	162	37, 893		
Paonia-Farmers	Paonia Farmers Coal	2	179	1, 436		
Red Canon #1	Lyndon H. Fogg	3	204	4, 075		
Tomahawk	Tomahawk Coal	5	120	4, 255		
Top	Welland W. States	4	203	3, 272		2
<b>TOTALS - 7</b>		48	1, 178	61, 697	-	2
<b>EL PASO</b>						
Franceville Strip	Franceville Coal	2	220	7, 554		
Pikeview	Pikes Peak Fuel	26	126	36, 534		
<b>TOTALS - 2</b>		28	346	44, 088	-	-
<b>FREMONT</b>						
Annex	Annex Coal	3	207	4, 346		1
Beer Strip	Beer Coal & Construction	4	242	22, 449		
Black Knight #2	Casimiro Alvidrez & Sons	3	237	1, 315		1
Caldirola #2	Caldirola Fuel	5	168	5, 210		
Canon Black Diamond	Canon Black Diamond Coal	5	201	18, 105		1
Canon Liberty #3	Liberty Mining	4	135	4, 344		1
Canon National	Canon National Coal	7	263	24, 414		
Canon Wolf Creek #2	Strainer Coal	6	105	2, 674		
Canon Zenith #2	N. J. Moschetti	3	167	2, 267		



Cedar Canon	Giuliano & Sons Coal	6	210	14,291	1
Coal Creek Canon	Coal Creek Canon Mining	5	219	10,599	1
Double Dick	Double Dick Coal	6	209	8,829	2
Golden Quality #4	Golden Quality Coal	5	250	10,462	2
L & C #2	C. Lovisone & T. Colarelli	5	159	3,405	
Pine Gulch #2	Sarmiento Coal	3	157	818	
Pine Gulch #3	Sarmiento Coal	4	178	2,445	
Pioneer Canon	The Corley Company	16	250	50,701	2
Rex Carbon	Rex Carbon Fuel	6	258	13,030	1
Twin Pines	Twin Pines Coal	3	246	5,452	
Vento	Vento Coal	8	237	21,312	
TOTALS - 20		107	4,098	226,468	13
GARFIELD					
Atlas #3	Henry Bendetti	1	220	156	
Harvey Gap #3	Clark A. & Eileen Tolley	3	275	2,168	
I H I #3	Haas Coal	9	258	18,060	1
Marion #2	Clay Walck	2	40	89	
New Castle-Vulcan	W. E. Coles	5	196	4,698	1
North Canyon	Rifle Coal	4	250	8,183	1
Rex	L. Prendergast & Son	5	117	1,262	
Sunlight	Four Mile Coal	3	313	4,071	
TOTALS - 8		32	1,669	38,687	3
GUNNISON					
Baldwin	A. G. Smith	3	167	1,517	1
Bear	Bear Coal	54	127	53,003	
Black Beauty	Ellis Coal	10	192	13,719	
Edwards	Clark Coal	11	112	15,154	
Hawk's Nest	Champion Coal Mining	25	129	32,023	
Hinkle	Castles Coal	2	122	732	
Nu Mine #2	Partch Brothers	10	220	18,988	
Ohio Creek #2	S. L. Staples, Jr.	2	264	2,672	

Continued

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
GUNNISON Cont. Oliver #3	Minerals Dev. Corp. -Colo.	28	142	32, 671		
Somerset	Minerals Dev. corp. -Colo.	81	171	121, 189		4
TOTALS - 10		226	1, 646	291, 668	-	5
HUERFANO						
Black Beauty	Black Beauty Coal	4	194	1, 675		1
Blue Blaze	Blue Blaze Coal	3	84	1, 681		
Caddell #2	Aztec Fuel	2	50	138		
Calumet #2	Delcarbon Coal	19	170	20, 566		1
Gordon	Skinner Coal	6	249	13, 423		
Klikus (Taylor #1)	C & C Coal	4	25	120		
Leader #3	Leader Coal	3	203	1, 403		
Maitland #1	Red Ash Coal	3	89	1, 604		
Maitland #2	Red Ash Coal	8	215	7, 070		1
Major #2	Major Coal	4	220	5, 343		1
Morning Glory	Morning Glory Coal	12	202	15, 479		
Rugby #6	Rugby Coal	5	170	1, 829		
TOTALS - 12		73	1, 871	70, 331	-	4
JACKSON						
Marr	Mrs. Mary Barnell	2	200	1, 448		
TOTALS - 1		2	200	1, 448	-	-
LA PLATA						
Blue Flame	Vernon Cason	2	243	2, 263		
Burnwell #2	William M. Hunt	3	104	1, 930		
Coal King #2	Oren A. Pilcher	2	195	1, 608		
Hay Gulch #2	Hay Gulch Coal	2	221	1, 625		
King	King Coal	3	245	4, 391		
Minoletti	William Rasmussen	4	139	2, 436		1
Morning Star	Frank, Jr., N. & C. Zellitti	2	203	2, 243		
Peacock	Peacock Coal	3	221	3, 008		

Peerless	Peerless Coal	1	107	627	
Victory #1	Victory Coal	4	224	7,216	
Victory #2	Victory Coal	2	22	126	
Victory #3	Victory Coal	4	269	10,872	
Wright #1	Wright Fuel	2	76	1,469	
TOTALS - 13		34	2,269	39,814	1
LAS ANIMAS					
Aguilar-Imperial	Aguilar Imperial Coal	3	145	1,425	
Allen	Colo. Fuel & Iron Corp.	533	208	668,772	8
Anchor #2	Joe M. & Della Garcia	3	220	712	
Baldy #2	Baldy Coal	19	36	1,316	1
Berwind Canyon	Berwind Canyon Coal	4	169	1,439	
Bisulco	Alex Bisulco	4	39	225	
Brodhead #2	Brodhead Coal	3	235	2,883	
Burro Canyon #3	Leo Franklin	3	59	177	
Delagua #3 $\frac{1}{2}$	Manuel H. Montez	2	170	940	
Engleville	Guadagnoli Brothers	2	216	2,403	
Frederick	Colo. Fuel & Iron Corp.	589	210	346,849	3
Grey Creek #4	Morasky Coal & Blocks	5	90	1,273	
Martinez	Albert Martinez	1	100	217	
Peacock	Peacock Coal	4	257	3,815	
Prosperity #2	Pete Pantazes	2	262	778	
Rainbow	Rainbow Coal	2	48	45	
Rapson #2	Rapson Coal	8	273	13,303	2
Red Glow	Red Glow Coal	2	81	250	
Starkville #4	A. Iuppa Coal	4	211	2,746	
TOTALS - 19		1,193	3,029	1,049,568	14
MESA					
Blue Flame	Barstow, Aul & Peterson	3	208	3,547	
Cameo	Kerr Coal	32	187	58,010	
Gearhart	Homer B. Phillips	9	185	4,925	1
Hidden Treasure	Ernest Hicks	2	158	2,241	
Continued					

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
MESA Cont.						
Hunter	Bryan A. Nichols	2	56	403		
Hy-Grade	Mack R. Paterson	4	187	2,459		
McGinley	Eagle Head Coal	2	256	2,982		
River View	Louis Supancic	3	159	2,291		
Winger	Clarke Coal	2	72	481		
TOTALS - 9		59	1,468	77,339	-	1
MOFFAT						
Red Wing	Colowyo Coal	33	180	108,025		2
TOTALS - 1		33	180	108,025	-	2
MONTEZUMA						
Montezuma #2	Glen E. Wilson	2	170	1,035		
TOTALS - 1		2	170	1,035	-	-
MONTROSE						
Independence	Ammon E. Nix	3	210	1,983		
TOTALS - 1		3	210	1,983	-	-
PITKIN						
Dutch Creek	Mid-Continent Coal	11	225	46,951		2
Thompson Creek #1	Thompson Creek Coal&Coke	60	243	88,164		5
Thompson Creek #3	Thompson Creek Coal&Coke	52	241	84,527		3
TOTALS - 3		123	709	219,642	-	10
RIO BLANCO						
Blue Streak	Ralph D. Lichtenhahn	3	65	2,186		
Rienau	Jenkins & Mathis Coal	3	251	5,558		
White River	White River Fuel	4	181	5,158		
TOTALS - 3		10	497	12,902	-	-
ROUTT						
Apex	Boscia Coal	1	177	960		
Babson	Babson Coal	1	84	239		
Crow Bar	Dry Creek Coal	14	168	16,765		



Edna Strip	Edna Coal	41	111	159, 896		1
Harris	Colorado & Utah Coal	70	134	81, 481		4
Johnnie's	John Mathews	2	118	343		
Keystone	Keystone Mining Corp.	51	110	32, 063		2
Old Quaker Strip	Dry Creek Coal	3	70	9, 045		
Osage Strip	Osage Coal	34	113	156, 049		1
Rice-Pinnacle	Rice-Pinnacle Coal Corp.	6	210	1, 628		
Sun	Sun Coal	1	210	495		
TOTALS - 11		224	1, 505	458, 964	-	8
SAN MIGUEL						
Keck-Reliance	W. R. Keck	1	40	25		
TOTALS - 1		1	40	25	-	-
WELD						
Boulder Valley #3	Boulder Valley Coal	48	133	90, 098		2
Eagle	Imperial Coal	81	195	228, 514		3
Imperial	Imperial Coal	33	82	34, 888		1
Lincoln	Clayton Coal	30	158	70, 275		1
Sterling	McNeil Coal Corp.	35	179	62, 969		1
Washington	Clayton Coal	74	187	134, 359		5
TOTALS - 6		301	934	621, 103	-	13
GRAND TOTALS		2, 499	22, 019	3, 324, 787	-	76

# COAL SHIPMENT AND DISPOSAL

COUNTY	RAILROAD	TRUCK	POWER & HEAT (at mine)	OUT OF STATE	CHEM. TREATED
Delta	36,844	24,477	376	5,401	8,649
El Paso	6,602	36,986	500		18,225
Fremont	11,462	214,908	98	7,001	292
Garfield		38,687			13,649
Gunnison	213,803	59,885	17,980	139,480	47,021
Huerfano	23,096	47,232	3	12,656	5,098
Jackson		1,448			
La Plata		39,796	18		600
Las Animas	1,020,495	25,657	3,416	900	
Mesa	29,786	27,275	* 64		4,053
Moffat	93,626	14,399		49,245	48,367
Montezuma		1,035			
Montrose		1,979	4		
Pitkin	219,642			219,642	
Rio Blanco	3,319	9,583		3,219	4,527
Routt	418,109	39,186	1,669	125,734	85,115
San Miguel		25			
Weld	374,223	242,265	4,615	165	40,599
TOTALS	2,451,007	824,823	28,743	563,443	276,195

\* Mesa-Used by Public Service Power Plant at Cameo Mine-20,214 tons

SIZES, GRADES, BY COUNTY

MINE RUN	LUMP	EGG	OTHER GRADES	NUT	PEA	SLACK
3,617	15,486		1,371	4,651	425	36,147
368	8,311	9,725		9,030		16,654
123,043	23,898		34,513	5,203	1,348	38,463
4,733	2,537		1,065	519		29,833
155,945	31,156	188	1,858	10,470		92,051
1,977	11,654	12,044	573	7,787	2,549	33,747
1,448						
26,317	5,888	1		633	424	6,551
15,176	6,057	246		695	1,013,485	13,909
635	4,779	182		1,848	275	69,620
130	16,930	14,568				76,397
1,035						
	986			226		771
219,642						
	2,058	1,033	733	1,135		7,943
24,729	47,960	32,827	7,095	22,959	65,195	258,199
25						
	46,667	93,088	7,254	9,782	7,530	456,782
578,820	224,367	163,902	54,462	74,938	1,091,231	1,137,067

# MECHANICAL LOADING

COUNTY	Shaker Type	MECHANICAL LOADERS							Small Portable Conveyors	TONS OF COAL TOTALLY LOADED BY MECHANICAL DEVICES (None or very little hand labor)
		Chain Conveyors		Mainline		Mobile		Power Shovel		
		Short Face	Room Length	Belt	Chain	Track	Caterpillar Type			
Delta	2					2	2			44,694
El Paso	1						3			36,534
Fremont	20	4	5		1		10		1	161,628
Garfield										
Gunnison	16		1	4			8			243,521
Huerfano	12	1	4	1	1					
Jackson										
La Plata	1									2,195
Las Animas	48	1	5	10	2		10	1		668,772
Mesa	16									62,710
Moffat	3						3			108,025
Montezuma										
Montrose										
Pitkin	15	2		1	1		1			36,582
Rio Blanco	2	1					5			11,902
Routt	36		2		1		2		1	98,793
San Miguel										
Weld	7			1			14			406,057
TOTALS	179	9	17	17	6	2	58	1	2	1,881,413



COLORADO - 1957

TONS OF COAL HAND LOADED ONTO MECHANICAL DEVICES	MINING MACHINERY							TOTAL TONNAGE
	Undercutting	Electric Shearing	Combination Undercutting and Electric Shearing	Electric Drills	Compressed Air Cutting Machines	Compressed Air Drills	Continuous Miners	
	8		2	12				61,697
	4			6		.		44,088
34,265	36			37				226,468
	1			14		1		38,687
6,329	24		2	25	1			291,668
44,300	35			19				70,331
	1			1				1,448
2,196	14			14				39,814
40,058	46		3	33		22		1,049,568
6,316	20			21				77,339
	5			14				108,025
								1,035
	1			1				1,983
172,691				10			1	219,642
1,000	4			8				12,902
33,210	44			44		1		458,964
	1							25
	35		1	44	9		8	621,103
340,365	279	-	8	303	10	24	9	3,324,787

Mined & Loaded by Continuous Miners:      Weld County - 215,046  
    Pitkin        "       - 10,369

## COAL MINE STATISTICS - 1883 THRU 1957 - STATE OF COLORADO

YEAR	TONNAGE	MINES REPORT- ING	MEN	DAYS AVE.	ACCIDENTS	
					FAT.	NON-FAT.
1864-1883	3,350,445					
1883	1,220,593)	18			2	32
1884	1,130,024)	29	2,122		63	12
1885	1,398,796	53	2,154		9	62
1886	1,436,211	41	3,500		6	48
1887	1,791,735	57	4,000		12	52
1888	2,185,477	66	5,375		29	76
1889	2,400,629	50	5,519		24	98
1890	3,075,781	77	6,172		16	83
1891	3,512,632	72	6,822		30	124
1892	3,771,234	86	7,578		34	125
1893	3,947,056	81	7,892		46	130
1894	3,021,028		6,046		19	160
1895	3,339,495	90	7,360		23	113
1896	3,371,633	100	6,754	NOT REPORTED	68	59
1897	3,565,660	109	7,018		35	54
1890	4,174,037	102	7,425		24	72
1899	4,826,939	91	7,321		42	108
1900	5,495,734	111	7,271		29	70
1901	6,021,405	100	8,000		55	81
1902	7,522,923	100	9,000		73	105
1903	7,775,302	102	10,296		44	110
1904	6,776,551	128	10,769		89	118
1905	8,989,631	140	11,891		59	100
1906	10,308,421	143	12,030		88	160
1907	10,965,640	153	12,900		99	110
1908	9,773,007	154	14,354		61	115
1909	10,772,490	158	13,156		89	116
1910	12,104,887	155	14,768		319	146

From Annual Reports & Records of State Coal Mine Inspection Dept.

\* NUMBER KILLED

EXPLOSIONS,

IGNITIONS

GAS/DUST

MINE OR  
GOB FIRES,

PER 1,000		TONS PER		NO. NO.		ETC.
FAT.	NON-FAT	FAT.	NON-FAT.	EXP.	KILLED	

		610,296	35,018	0		
30.63	20.70	17,937	94,169	1	59	
4.18	28.78	155,422	22,561	1	1	
1.71	13.71	239,369	29,921	0		
3.00	13.00	149,311	34,456	0		
5.39	14.14	75,361	28,756	4	8	
4.34	17.76	100,026	24,496	0		10*
2.59	13.45	192,236	37,057	1	1	
4.40	18.18	117,088	28,973	0		
4.49	16.50	110,330	30,170	0		
5.83	16.47	85,806	30,362	1	24	
3.14	26.46	159,001	18,881	0		
3.13	15.35	145,195	29,553	1	4	
10.07	8.74	49,582	57,146	1	49	
4.99	7.69	101,876	66,030	1	12	
3.23	9.70	173,918	57,973	0		
5.73	14.76	114,927	44,694	0		
3.98	9.62	189,508	78,510	0		1
6.89	10.13	109,480	74,338	3	10	
8.11	11.67	103,053	71,646	5	20	2
4.27	10.68	176,711	70,684	1	1	
8.96	10.96	76,141	57,428	1	19	
4.96	8.41	152,367	89,896	0		
7.32	13.30	117,141	64,428	4	35	
7.67	8.53	110,764	99,687	3	26	7
4.25	8.01	160,213	84,982	5	5	
6.76	8.82	121,039	92,886	5	15	1
21.60	9.88	37,946	82,910	3	210	12

1889 - INUNDATION\*

\* Details under "Disasters" - Pages 32 - 39

YEAR	TONNAGE	MINES		DAYS	ACCIDENTS	
		REPORT- ING	MEN		FAT.	NON-FAT
1911	10,197,595	164	14,315	174	91	305
1912	11,016,948	160	13,981	192	98	356
1913	9,268,939	178	12,871	192	110	354
1914	8,201,423	188	10,596	177	75	356
1915	8,715,397	199	12,563	166	64	712
1916	10,822,185	219	12,598	176	44	889
1917	12,515,305	238	13,970	191	188	1,563
1918	12,658,055	249	14,374	169	71	1,227
1919	10,406,543	241	12,799	221	91	1,283
1920	12,514,693	231	13,665	256	70	1,806
1921	9,141,947	249	14,164	164	52	1,520
1922	10,003,610	275	13,436	200	74	1,724
1923	10,336,735	276	13,277	170	66	1,679
1924	10,501,088	271	12,703	182	44	1,851
1925	10,440,387	283	12,228	187	57	1,912
1926	10,616,760	264	11,768	203	52	1,863
1927	9,781,580	271	11,453	194	54	1,916
1928	9,921,585	271	11,474	188	35	1,810
1929	9,934,064	269	11,196	181	53	1,726
1930	8,238,094	275	10,683	165	36	1,522
1931	6,604,063	318	10,015	140	22	1,238
1932	5,616,525	345	8,786	135	29	1,083
1933	5,284,872	375	8,179	140	20	1,042
1934	5,251,003	352	8,138	143	21	962
1935	5,953,601	378	8,426	165	26	836
1936	6,868,801	360	9,065	167	29	861
1937	7,222,092	334	9,543	159	24	679
1938	5,730,291	358	8,688	156	31	542
1939	6,002,125	398	8,457	168	26	524
1940	6,673,359	358	8,217	176	24	520

PER 1,000		TONS PER		NUMBER KILLED		
FAT.	NON-FAT.	FAT.	NON-FAT.	EXPLOSIONS, IGNITIONS GAS/DUST NO. NO. EXP. KILLED		MINE OR GOB FIRES, ETC.
6.35	21.30	122,862	33,435	1	17	2
7.06	25.60	112,418	30,946	4	17	
8.60	27.50	84,263	26,183	1	37	2
7.00	33.60	109,352	23,038	1	1	
5.10	56.70	136,178	12,241	1	2	2
3.35	67.00	239,095	11,836	0		
3.50	112.00	66,571	8,004	2	122	
4.90	85.50	177,578	10,276	3	5	
7.10	100.00	114,357	8,110	2	31	1
5.40	132.00	178,781	6,930	0		
3.60	107.30	175,807	6,014	1	5	6
5.50	128.30	135,184	5,803	1	17	
4.97	126.46	156,617	6,156	3	17	
3.48	145.70	238,661	5,673	1	1	
4.66	156.36	183,165	5,460	2	4	
4.42	158.10	204,168	5,699	2	7	
4.70	167.30	181,140	5,105	1	7	
3.05	157.75	283,474	5,482	0		
4.73	154.16	187,435	5,165	0		2*
3.38	142.47	228,836	5,413	0		
2.50	123.60	300,185	5,334	2	4	
3.30	124.40	193,673	5,187	1	1	
2.20	127.40	264,244	5,072	0		2
2.50	118.21	250,048	5,458	0		1**
2.65	99.22	228,985	7,122	1	4	
3.20	94.90	236,856	7,978	1	8	
2.51	71.20	300,921	10,636	1	1	
3.57	62.40	184,848	10,572	0		
3.07	61.96	230,851	11,454	1	1	
2.92	68.30	278,057	12,833	1	2	

1929 \* Suffocation - Old Shaft

1934 \*\*Asphyxiation - Fan House



YEAR	TONNAGE	MINES REPORT- ING	MEN	DAYS AVE.	ACCIDENTS	
					FAT.	NON-FAT.
1941	7, 008, 037	332	7, 878	171	23	565
1942	8, 131, 764	293	8, 041	192	58	714
1943	8, 372, 183	250	7, 402	206	26	749
1944	8, 202, 401	241	6, 713	211	22	663
1945	7, 657, 744	233	6, 403	207	25	610
1946	5, 941, 105	241	6, 446	169	19	455
1947	6, 381, 016	263	6, 143	169	14	361
1948	5, 682, 512	258	5, 699	163	8	308
1949	4, 580, 848	238	5, 291	162	11	243
1950	4, 274, 887	233	4, 837	155	10	190
1951	4, 111, 945	223	4, 271	156	4	197
1952	3, 643, 523	187	3, 630	150	5	157
1953	3, 598, 867	171	3, 359	150	3	121
1954	2, 922, 365	158	2, 878	155	3	86
1955	3, 366, 490	150	2, 834	162	8	85
1956	3, 303, 661	143	2, 675	163	2	84
1957	3, 324, 787	128	2, 499	172	0	76
Totals 504, 969, 196					3, 405	42, 888

PER 1,000		TONS PER		NUMBER KILLED		
FAT.	NON-FAT.	FAT.	NON-FAT.	EXPLOSIONS, IGNITIONS GAS/DUST NO. NO.	EXP. KILLED	MINE OR GOB FIRES, ETC.
2.92	71.69	304,697	12,403	0		
7.21	88.79	140,203	11,389	2	37	1
3.51	101.20	322,026	11,178	1	1	
3.28	98.76	372,836	12,372	0		1
3.90	95.26	306,809	12,553	0		
2.94	70.58	312,689	13,057	0		
2.28	58.79	455,081	17,649	0		
1.40	54.04	710,314	18,851	0		
2.08	45.94	416,440	18,846	0		
2.07	39.28	427,489	22,499	0		
0.94	46.13	1,027,986	20,873	0		
1.37	43.25	728,704	23,207	0		
0.89	36.01	1,199,622	29,743	0		
1.04	29.88	974,182	33,981	0		
2.82	29.99	420,811	39,606	0		
0.747	31.40	1,651,831	39,332	0		
0.00	30.41		43,747	0		

# DISASTERS IN COLORADO COAL MINES - 1884 TO DATE

## FATALITIES FROM EXPLOSION, MINE FIRE, ETC.

DATE	MINE	COMPANY	COUNTY	CAUSE	NO. KILLED Fires, Explosion Etc.
1884-Jan. 24	Crested Butte	Colo. Coal & Iron	Gunnison	Explosion of gas & dust - open light	59
1885-Jan. 12	Coal Creek	Colo. Coal & Iron	Fremont	Explosion of gas - open light	1
1888-Jan. 14	Rockvale #1	Canon City Coal	Fremont	Explosion of gas - open light	1
Nov. 5	Starkville	Trinidad Coal & Coking	Las A.	Explosion of gas/dust - open light	2
Dec. 3	New Castle	Grand River Coal	Garfield	Explosion of dust - open light	3
Dec. 10	Coal Creek #2	Colo. Coal & Iron	Fremont	Explosion of gas - open light	2
1889-Sept. 9	White Ash	White Ash Coal and Mining	Jefferson	Inundation - water from Old Loveland Shaft broke into White Ash workings	10
1890-Jan. 29	Como #5	Union Coal	Park	Explosion of gas - open light	1
1893-Jan. 10	Como #5	Park Coal	Park	Explosion - blown-out shot	24



1895-May 10	Sopris	Colo. Coal & Iron	Las A.	Explosion of gas - open light	4
1896-Feb. 18	Vulcan	A. T. & S. F. Coal	Garfield	Explosion of gas/dust - firing shot	49
1897-Sept. 3	Sunshine	Colo. Fuel & Iron	Garfield	Explosion of gas/dust - open light	12
1900-May 19	Palisade	Palisade Coal	Mesa	MINE FIRE - suffocation	1
1901-Jan. 8	New Castle	Colo. Fuel & Iron	Garfield	Explosion of gas - blown-out shot	2
May 31	Coryell	P. C. Coryell	Garfield	Explosion of gas - open light	2
Sept. 16	Spring Gulch	C. F. & I.	Pitkin	Explosion of dust - blown-out shot	6
1902-Jan. 20	Pictou	C. F. & I.	Huerfano	Explosion of gas/powder - open light	3
Apr. 23	Sunnyside	Spegel & Reber	Boulder	Explosion of gas - open light	1
July 28	Rifle	McLearn Merc.	Garfield	Explosion of dust - Firing shots	1
Aug. 2	Brodhead	Brodhead Bros.	Las A.	Explosion of gas in shaft - open light	2
Aug. 7	Bowen	Victor-American Fuel	Las A.	Explosion of dust/powder - open light	13
Nov. 21	New Engle	C. F. & I.	Las A.	GOB FIRE - asphyxiation	2
1903-Nov. 11	Coryell	Garfield County Coal & Fuel	Garfield	Explosion of dust - over-charged shot	1

DATE	MINE	COMPANY	COUNTY	CAUSE	NO. KILLED	
					Explosion	Fires, Etc.
1904-Oct. 28	Tercio	C. F. & I.	Las A.	Explosion of dust - blown-out shots	19	
1906-Feb. 19	Maitland	Victor-American Fuel	Huerf.	Explosion of gas - open light	14	
Apr. 19	Engle	C. F. & I.	Las A.	Explosion of gas	1	
Apr. 22	Cuatro	C. F. & I.	Las A.	Explosion of gas/dust - open light	19	
July 16	Tobasco	C. F. & I.	Las A.	Explosion of gas	1	
1907-Jan. 23	Primero	C. F. & I.	Las A.	Explosion of gas/dust - open light	24	
Feb. 15	Brodhead	Brodhead Bros.	Las A.	MINE FIRE - suffocation	2	
Apr. 24	Midway	Nicholls Coal	Huerf.	Explosion of gas	1	
May 19	Engleville	C. F. & I.	Las A.	MINE FIRE - suffocation	5	
Dec. 20	Pictou	C. F. & I.	Huerf.	Explosion of dust	1	
1908-Mar. 15	Standard	Standard Coal & Land	Boulder	Explosion of gas	1	
Mar. 31	Oakdale	Oakdale Coal	Huerf.	Explosion of gas	1	
Apr. 14	Champion	Royal Coal & Coke	La Plata	Explosion of gas	1	
Sept. 1	Nonpareil	Brooks-Harrison Fuel	Boulder	Explosion of gas	1	
Nov. 9	De Rush	Grandview Coal	Mesa	Explosion of gas	1	
1909-May 4	Hastings	Victor-American Fuel	La A.	Explosion of gas	1	

July 6	Toller	Cedar Hill Coal & Coke	Las A.	Explosion of gas - open light	9
Aug. 2	Solar	Walsenburg Coal Mining	Huerfano	Explosion of gas in air shaft	2
Aug. 28	Last Chance	James Dougherty	El P.	Gas from blown shot	1
Nov. 14	Morley	C. F. & I.	Las A.	Explosion of dust - blown-out shot	
Dec. 14	Greenville	Cedar Hill Coal & Coke	Las A.	Explosion of dust - blown-out shot	2
1910-Jan. 31	Primero	C. F. & I.	Las A.	Explosion of gas/dust	75
Oct. 8	Starkville	C. F. & I.	Las A.	Explosion of dust - arc from runaway trip	56
Nov. 8	Delagua	Victor-American Fuel	Las A.	Explosion of gas/dust - open light	79
Nov. 22	Fremont	C. F. & I.	Fremont	GOB FIRE - Suffocation	2
Dec. 4	Leyden	Leyden Coal	Jefferson	MINE FIRE - unknown cause	10
1911-Feb. 4	Cokedale	Carbon Coal & Coke	Las A.	Explosion of dust - blown-out shot	17
Sept. 15	So. Canon	South Canon Coal	Garfield	MINE FIRE - suffocation	1
Dec. 4	Royal	Royal Fuel	Las A.	MINE FIRE - suffocation	1
1912-June 18	Hastings	Victor-American Fuel	Las A.	Explosion of gas - defective safety lamp	12
Aug. 29	Piedmont	Rocky Mt. Fuel	Las A.	Explosion of gas - open light	2
Oct. 1	So. Canon	South Canon Coal	Garfield	Explosion of gas/dust - blown-out shots	2
Nov. 8	Simpson	Rocky Mt. Fuel	Boulder	Explosion of gas	1

DATE	MINE	COMPANY	COUNTY	CAUSE	NO. KILLED	
					Fires, Explosion	Etc.
1913-Mar. 2	Toller	Cedar Hill Coal & Coke	Las A.	Suffocation from gas		2
Dec. 16	Vulcan	Coryell Mine Leasing	Garfield	Explosion of dust - powder, open light	37	
1914-June 28	Royal	Royal Fuel	Las A.	Explosion of gas - lighting safety lamp	1	
1915-Mar. 4	Parkdale	J. Etchells	Weld	Suffocation - gas in old workings		2
May 2	Mutual	Mutual Coal	Huerfano	Explosion of gas - arc from cutting machine	2	
1917-Apr. 27	Hastings	Victor-American Fuel	Las A.	Explosion of gas/dust - open light	121	
Dec. 31	Berwind	C. F. & I.	Las A.	Explosion of gas - open light	1	
1918-Oct. 9	Cameron	C. F. & I.	Huerfano	Explosion of gas - open light	1	
Oct. 21	Hezron	Caddell and Carlson	Huerfano	Explosion of gas - open light	1	
Nov. 4	Vulcan	Garfield Mine Leasing	Garfield	Explosion of gas - open light	3	
1919-Mar. 31	Empire	Empire Coal	Las A.	Explosion of gas - electric arc	13	
Aug. 18	Oakdale	Oakdale Coal	Huerfano	Explosion of gas - defective safety lamp	18	

Oct. 29	City #2	Alex Patterson	El Paso	Suffocation - gas from old workings	1
1921-Feb.	12 Oak Hills #2	Moffat Coal	Routt	Explosion of dust - blown-out shots	5
Dec. 13	Satanic	Colo. Collieries	Jefferson	MINE FIRE - Suffocation	6
1922-Mar.	24 Sopris #2	C. F. & I.	Las A.	Explosion of gas/dust - arc-cutting machine	17
1923-May	5 Southwestern	Rocky Mt. Fuel	Las A.	Explosion of gas/dust - open light	10
June 23	Placita	Rapini Bros.	Pitkin	Explosion of gas - open light (relighting safety lamp)	1
Oct. 7	Midwest	Midwest Coal	Mesa	Explosion of gas/dust - open light	6
1924-Aug.	5 Alamo	Alamo Coal	Huerfano	Explosion of gas/dust - open light, lighting fuses	1
1925-June	19 Gordon	Gordon Coal	Huerfano	Explosion of gas - arc-cutting machine	3
Aug. 22	Genter	Rapid Creek Mining	Gunn.	Explosion of gas - open light	1
1926-Jan.	23 Harvey Gap	Daniel Bracken	Garfield	Explosion of gas - open light	3
Jan. 29	Bear Canon #3	Bear Canon Coal	Las A.	Explosion of gas/dust - open light	4



DATE	MINE	COMPANY	COUNTY	CAUSE	NO. KILLED	
					Fires,	Explosion Etc.
1927-May 27	Delagua #3	Victor-American Fuel	Las A.	Explosion of gas - arc from runaway trip	7	
1929-Mar. 21	Eureka	Bell Coal	Weld	Suffocated - gas in air shaft of abandoned mine. Trespassing	2	
1931-July 21	Bear Canon #6	Bear Canon Coal	Las A.	Explosion of gas - blown-out shot	1	
Oct. 23	Ferrell	Abandoned	Las A.	Explosion of gas - open lights - trespassing	3	
1932-Dec. 20	Calumet #1	Calumet Fuel	Huerf.	Explosion of gas - electric arc	1	
1933-Dec. 2	Littleton Valley Coal	Littleton Valley Coal	Jefferson	Suffocation - gas from old workings, improperly sealed	2	
1934-Apr. 1	Carbonero	Gilson Asphaltum	Garfield	FIRE in fan house - gas poisoning	1	
1935-July 9	Bear Canon #6	Bear Canon Coal	Las A.	Explosion of gas/dust - electric arc	4	
1936-Jan. 20	Monarch #2	National Fuel	Boulder	Explosion of gas - electric arc	8	

1937-Mar. 31	Griffiths	Griffith's Coal	Fre.	Explosion of gas - arc-cutting machine	1
1939-Dec. 29	Hi-Way	Louisville - Lafayette	Boulder	Explosion of gas	1
1940-Aug. 10	Daisy	Daisy Coal	Las A.	Explosion of gas - blasting	2
1942-Jan. 27	Wadge	Victor-American Fuel	Routt	Explosion of gas - arc-electric machinery	34
Sept. 24	Rockvale #3	C.F. & I. Corp.	Fremont	Suffocation - gas in abandoned workings	1
Nov. 23	Butte Valley	Butte Valley Coal	Huerf.	Explosion of gas	3
1943-Sept. 20	Apex	George Steele	Routt	Explosion of gas - blown-out shot	1
1944-Apr. 24	Gordon	Gordon Coal	Huerf.	ASPXYXIATION - gas in old workings	1
1945 to Date - NONE					

Compiled from Annual Reports of Department.

# ACCIDENT STATISTICS BY CAUSE

## FIVE YEAR COMPARISON

NON-FATALS						FATALS				
1953	1954	1955	1956	1957	Causes of Injury	1953	1954	1955	1956	1957
27	17	10	9	9	Falls of roof	2	3	5	1	
12	5	4	6	7	Fall of face or rib				1	
7	7	15	6	8	Falling objects					
4	3	5	5	5	Falls of persons					
9	19	6	12	8	Handling materials					
10	4	6	8	5	Hand tools					
3	2	4		1	Striking vs objects					
21	11	15	10	15	Haulage	1				
	2		3		Explosion of gas					
2	3		5	1	Explosives					
2	4	2	4		Electricity					
17	7	13	13	14	Machinery				1	
6	1	3	1	2	Jack pipes					
1		1	1	1	R. R. cars				2	
	1	1	1		Others					
121	86	85	84	76	TOTALS	3	3	8	2	0



## ACCIDENT STATISTICS

	Fatalities		Non-Fatals	
	1956	1957	1956	1957
Fatalities	2	0		
Non-Fatals/Compensable			84	76
Per 1,000 employed	0.747	0.00	31.40	30.41
Men employed per injury	1,337.45		31.84	32.88
Tonnage per injury	1,651,830.5		39,331.7	43,747
Per million tons	0.605		25.42	22.86
Dependents: Widows	1			
Children	0			









